

GENERAL FIRE PROTECTION NOTES

- ALL SERVICES, EQUIPMENT, ETC. SHOWN ON PLANS ARE NEW AND SHALL BE FURNISHED UNDER THIS CONTRACTOR UNLESS OTHERWISE INDICATED.
- IN GENERAL, ALL PIPING SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR OTHERWISE INDICATED. CERTAIN ROOMS HAVE NO SUSPENDED CEILINGS, AND PIPING AND DUCTWORK IN THESE ROOMS IS TO BE EXPOSED.
- ALL PIPING IS INTENDED TO BE CONCEALED IN WALLS AND PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. SOME ITEMS MAY APPEAR NOT TO BE CONCEALED DUE TO DIGITAL REGISTRATION AND ALIGNMENT ISSUES ASSOCIATED WITH THE DUPLICATION PROCESS.
- COOPERATE WITH THE OTHER TRADES TO AVOID ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES AND/OR OPENINGS WHERE REQUIRED TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOOR SLABS, WALLS, BRIDGING AND BEAMS EXCEPT WHERE OTHERWISE INDICATED.
- CONSULT REFLECTED CEILING PLAN FOR EXACT LOCATION OF SPRINKLERS.
- CEILING ACCESS IS REQUIRED AT ALL VALVES LOCATED ABOVE CEILING. CEILING ACCESS PANELS WILL BE PROVIDED UNDER THE GENERAL SECTION OF CONSTRUCTION AND SHALL BE MINIMUM OF 24" X 24" UNLESS OTHERWISE INDICATED. COORDINATE WITH GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES.
- WHERE NEW SERVICES ARE SHOWN CONNECTING TO EXISTING, VERIFY EXACT LOCATION AND SIZE OF EXISTING.
- ALL EXISTING SERVICES SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED.
- ALL PIPING WHICH IS DASHED AND/OR INDICATED BY NOTE ON DEMOLITION PLANS SHALL BE REMOVED.
- ALL FIRE PROTECTION SPRINKLER WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
- ALL PIPE PENETRATIONS OF RATED WALLS AND FLOORS SHALL BE SLEEVED AND PROPERLY FIRE SEALED.
- ALL PIPE PENETRATIONS OF SMOKE PARTITION WALLS SHALL BE PROPERLY SEALED TO RESIST THE PASSAGE OF SMOKE AS REQUIRED BY THE LOCAL AUTHORITY.
- NO SWAY BRACING IS REQUIRED. PROJECT IS LOCATED IN SEISMIC ZONE 1.
- KEEP EXISTING SERVICES OPERATIONAL TO ALL OTHER AREAS OF THE BUILDING NOT IN THE CONSTRUCTION AREA.
- SEE PHASING PLANS ON THE 'G' SHEETS FOR TIMING AND COORDINATION OF WORK.

FIRE SPRINKLER NOTES

- FIRE STOPPING & SEALING: ALL PIPE AND DUCT WHICH PENETRATE RATED WALLS AND OR CEILING ASSEMBLIES SHALL BE PROPERLY FIRE STOPPED AND SEALED AS REQUIRED BY THE LOCAL BUILDING CODE AUTHORITIES. SEE DETAILS.
- ENTIRE REMODEL AREA SHALL INCLUDE REWORKING THE EXISTING FIRE SPRINKLER SYSTEM NFPA 13 AS REQUIRED BY LOCAL BUILDING CODE, FIRE PROTECTION ENGINEER, AND FIRE MARSHALL AUTHORITY. ALL PIPING SHALL BE CONCEALED. FIRE SPRINKLER CONTRACTOR RESPONSIBLE FOR SYSTEM DESIGN. FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND STAMPED BY A LICENSED FIRE PROTECTION ENGINEER.
- ENTIRE BUILDING OR ADDITION SHALL BE FIRE SPRINKLERED, NFPA 13 AS REQUIRED BY LOCAL BUILDING CODE AND FIRE MARSHALL AUTHORITY. ALL PIPING SHALL BE CONCEALED. FIRE SPRINKLER CONTRACTOR RESPONSIBLE FOR SYSTEM DESIGN.
- THE SPRINKLER CONTRACTOR SHALL SUBMIT DETAILED WORKING PLANS SHOWING PROPER SPRINKLER PLACEMENT, HYDRAULIC CALCULATIONS AND PIPE SIZE FOR THIS PROJECT PRIOR TO COMMENCING INSTALLATION.
- COORDINATE NEW FIRE SPRINKLER LOCATION WITH ARCHITECTURAL REFLECTED CEILING PLAN, EXCEPT FOR THOSE AREAS THAT DO NOT HAVE CEILINGS, IN WHICH CASE, REFER TO THE FIRE SPRINKLER DRAWINGS. SEE ARCHITECTURAL DRAWINGS.
- FIRE PROTECTION CONTRACTOR SHALL VERIFY ALL EXISTING FIRE PROTECTION PIPING AND SPRINKLERS WITH RESPECT TO ALL NEW MECHANICAL EQUIPMENT LOCATION. IF THERE IS ANY INTERFERENCE NOTED, THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO RELOCATE EXISTING PIPING AND SPRINKLERS TO MEET REQUIREMENTS.
- ALL PIPING THAT DOES NOT DRAIN BACK TO MAIN SHALL BE PROVIDED WITH SEPARATE DRAINS.
- UNLESS OTHERWISE NOTED, ALL AREAS WITHOUT CEILINGS SHALL HAVE BRASS UPRIGHT SPRINKLERS WITH PIPING RUN EXPOSED. AREAS WITH CEILINGS SHALL HAVE SPRINKLERS AS SPECIFIED WITH PIPING RUN CONCEALED.
- SPRINKLER AND PIPING INSTALLATION SHALL BE COORDINATED CAREFULLY WITH NEW AND EXISTING LIGHTS, GRILLES, SPEAKERS, ETC., TO AVOID CONFLICTS.
- PAINT ALL PIPING EXPOSED TO VIEW IN FINISHED ROOMS, CORRIDORS, ETC. CLEAN PIPING, PAINT WITH PRIMER, AND ONE COAT ENAMEL BY G.C.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REINSTALLATION OF EXISTING CEILINGS REQUIRED TO INSTALL PIPING (UNLESS NOTED OTHERWISE).
- DRAIN, VENT AND FILL FIRE SPRINKLER SYSTEM FOR DEMOLITION AND NEW WORK.
- PROVIDE LOCKOUT/TAGOUT TAGS AND FOLLOW PROPER PROCEDURES WHILE WORKING AT ALL PIPING FOR DEMOLITION AND REROUTING WORK. COORDINATE WITH VA ENGINEERING STAFF.
- COORDINATE PIPE ROUTING WITH STRUCTURAL SYSTEM AND OTHER TRADES, AS APPROVED BY VA PROJECT ENGINEER.
- PROVIDE NEW WATER FLOW VALVES WITH TAMPER SWITCHES. PROVIDE NEW MONITOR MODULES FOR EACH NEW WATER FLOW AND TRANSFER SWITCH. ALL NEW MONITOR MODULES SHALL BE COMPATIBLE WITH EXISTING SIMPLEX INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEM. UPDATE FIRE ALARM SYSTEM PROGRAMMING FOR EACH NEW MONITOR MODULE.
- OCCUPANCY IS LIGHT HAZARD UNLESS OTHERWISE NOTED.
- A NEW FIRE SPRINKLER ZONE PIPE SHALL BE EXTENDED BACK TO THE FIRE PUMP. PROVIDE FLOW AND TAMPER SWITCH. COORDINATE WITH FIRE ALARM.

SYMBOLS LIST

- 2 HOUR FIREWALL
- - - 1 HOUR FIREWALL
- o - 2 HOUR FIRE-SMOKEWALL
- o - 1 HOUR FIRE-SMOKEWALL
- o o o o o o o o 30 MINUTE SMOKE BARRIER
- ***** SMOKE RESISTIVE HAZARDOUS AREA
- SUITE DESIGNATIONS
- AREA OPEN TO CORRIDOR - WITH SMOKE DETECTION
- AREA OPEN TO CORRIDOR - NO SMOKE DETECTION REQUIRED
- FALL STATION
- STROBE
- SPEAKER STROBE
- SMOKE DETECTOR
- INDUCT SMOKE DETECTOR
- HEAT DETECTOR
- TAMPER SWITCH
- FLOW SWITCH
- MONITORING MODULE RELAY
- RELAY
- RELAY FAN
- RELAY INTAKE
- NOTIFICATION APPLIANCE CONTROL
- ELEVATOR RECALL CONTROL RELAY
- MONITORING MODULE RELAY
- FIRE ALARM CONTROL PANEL NETWORK EXTENSION

FIRE SPRINKLER KEYNOTES

- REMOVE EXISTING FIRE SPRINKLER BACK TO MAINS. INSTALL NEW PIPING, FLOW SWITCH AND VALVES FOR EXPANDED FIRE PROTECTION ZONE. DEMOLITION WORK TO OCCUR AFTER HOURS TO PREVENT DISRUPTION TO THE MEDICAL CENTER.
- PROVIDE NEW FIRE PROTECTION SPRINKLER ZONE WITH PIPING, FLOW SWITCH AND VALVES.
- REMOVE AND REPLACE FIRE PROTECTION SPRINKLER SYSTEM IN REMODEL AREA TO PROVIDE 100% COVERAGE.
- ORDINARY HAZARD GROUP 1 AREA.
- NEW F.P. SPRINKLER PIPING TO NEW CONSTRUCTION AREA.

NOTE: NOT ALL KEYNOTES MAY BE USED ON EACH PLAN

SHEET INDEX - FIRE SUPPRESSION		
CD Issue	Sheet Number	Sheet Name
• 5-FX001		FIRE SUPPRESSION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
• 5-FX101		BASEMENT FLOOR FIRE SUPPRESSION PLAN
• 5-FX100		GROUND FLOOR FIRE SUPPRESSION PLAN
• 5-FX101		1ST FLOOR FIRE SUPPRESSION PLAN
• 5-FX102		2ND FLOOR FIRE SUPPRESSION PLAN
• 5-FX103		3RD FLOOR FIRE SUPPRESSION PLAN

MARK	REVISION DESCRIPTION	DATE

CONSULTANTS:



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Drawing Title
FIRE SUPPRESSION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

Approved: Project Director

Project Title Sioux Falls VA Health Care System Acute Inpatient Medical Unit Addition and Renovation		Project Number 04100857
Location VA Medical Center 2871 W. 22nd Street, PO Box 9046 Sioux Falls, SD 57117-9046		Building Number 5
Date 08/06/2012	Checked BSW	Drawn RAK
Drawing Number 5-FX001		Dwg. 51 of 123

**FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS**

Office of Construction and Facilities Management

Department of Veterans Affairs